



SECTION [32 15 40] [02730]

WAX-COATED DECOMPOSED GRANITE SURFACING

NexPave™ wax-coated decomposed granite provides beautiful and natural-looking surfacing for footpaths, horse trails, landscaping, and light duty drives and roadways. Special waxes help to reduce erosion and increase the durability of decomposed granite surfaces. In the past, contractors usually mixed binders or stabilizers into decomposed granite surfaces using equipment that was not intended for this purpose. The results were, too often, surfacing that was inconsistent in quality and appearance. Now, Gail Materials, the leading supplier of decomposed granite in Southern California, provides an alternative by blending aggregates and waxes at the quarry using careful quality control to assure the best performing surfacing.

PRODUCT SELECTION: Gail Materials has two types of decomposed granite surfacings. Natracil™, a stabilized decomposed granite surfacing, is suitable for most projects and is recommended where vehicular traffic may occur. NexPave is more erosion resistant and can be used on slopes up to 3:1 or steeper. A separate guide specification is available for Natracil.

EDIT SPECIFICATION: Edit the following guide specification to comply with project requirements. This document is available in word processing format at our website. Section numbers based on *MasterFormat 2004* except that numbers shown in blue are based on *MasterFormat 1995*. TURN ON HIDDEN TEXT FUNCTION TO SEE OR PRINT NOTES TO THE SPECIFIER.

COORDINATE WITH DRAWINGS: Show location and extent of wax-coated granite surfacing. Show details required at adjoining materials and special conditions. The depth of base coursed and the thickness of wax-coated granite surfacing can be either shown on the drawings or described in the specifications; edit this section carefully to avoid conflicting requirements.

FOR MORE INFORMATION: Contact Gail Materials at [www.GailMaterials.net](http://www.GailMaterials.net) or call 951-279-1095.

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Wax-coated decomposed granite surfacing.
- B. Related Work:
  - 1. Section [[32 16 13] [02770] – Concrete Curbs] [\_\_\_\_\_]: Concrete curbs.
  - 2. Section [[31 10 00] [02310] – Earth Moving] [\_\_\_\_\_]: Grading.
  - 3. Section [[32 11 00] [02720] – Base Courses] [\_\_\_\_\_]: Base Course.

## 1.2 REFERENCES

- A. “Greenbook” Standard Specifications for Public Works Construction.
- B. CalTrans 301 – Resistance "R" Value of Treated and Untreated Bases, Subbases and Basement Soils (Stabilometer).
- C. ASTM C136 – Sieve Analysis of Fine and Coarse Aggregates.
- D. ASTM D2419 – Sand Equivalent Value of Soils and Fine Aggregates.
- E. ASTM D2488 – Description and Identification of Soils (Visual-Manual Procedure).
- F. [RIS – Redwood Inspection Services Grades of California Redwood.]

## 1.3 SEQUENCING

- A. Do not install work specified in this Section prior to acceptance of earth moving.
- B. Coordinate work specified in this Section with work specified in other Sections to minimize cutting of and operation of heavy equipment over installed wax-coated decomposed granite surfacing.

## 1.4 SUBMITTALS

- A. Submit in accordance with Section [[01 33 00] [01330] – Submittal Procedures] [\_\_\_\_\_]:
  - 1. Manufacturer’s product data sheet and installation instructions indicating that product complies with specifications for:
    - a. Wax-coated decomposed granite surfacing.
    - b. [Edging] [and] [\_\_\_\_\_].
  - 2. Submit [quart] [\_\_\_\_\_] samples of wax-coated decomposed granite material [in color[s] specified.] [in manufacturer’s standard colors for selection.]
  - 3. [Redwood Edging: Submit evidence of chain-of-custody in accordance with Forest Stewardship Council.]

## 1.5 MOCK-UP

- A. Install [100] [\_\_\_\_\_] square feet minimum of wax-coated decomposed granite surfacing, including [base course and] edging, at location approved by [Architect] [Engineer].
- B. Allow [Architect] [Engineer] to view mock-up before proceeding with rest of wax-coated decomposed granite surfacing.

- C. [Approved mock-up may remain as part of completed Work.] [Remove mock-up after acceptance of work specified in this Section.]

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Protect wax-coated decomposed granite mix from contamination. Store under cover.

1.7 FIELD CONDITIONS

- A. Do not install wax-coated decomposed granite surfacing during rain or when subbase is wet.

PART 2 - PRODUCTS

2.1 WAX-COATED DECOMPOSED GRANITE MATERIALS

A. Acceptable Manufacturer:

1. Specification is based on products by Gail Materials, Corona, CA; phone 951-279-1095; fax 951-279-0956; www.gailmaterials.net.
2. Substitutions: [Not allowed.] [Products by other manufacturers that comply with specifications will be considered in accordance with Section [[00 21 13] [00200] - Instructions to Bidders.] [[01 25 00] [01630] - Substitution Procedures.] [\_\_\_\_\_.]

B. Decomposed Granite:

1. Produce from naturally friable granite. Blends of coarse sand and rock dust are not acceptable.
2. Gradation, in accordance with ASTM C136:
 

Sieve Size	Percent Passing
1/2"	100
3/8"	90 – 100
No. 4	50 – 100
No. 30	25 – 55
No. 100	10 – 20
No. 200	5 – 18
3. Sand Equivalent: 30 minimum in accordance with ASTM D2419.
4. Color: [Equal to Gail Materials [\_\_\_\_\_].] [To be selected by [Architect] [Engineer] from manufacturer’s standard colors.]
5. Local Material Content: Aggregate shall be mined within 500 miles of Project.

- C. Wax: Provide NexPave by Gail Materials, a proprietary blend of waxes and polymers. Melting temperature of blend shall be above 180 F.

- D. Factory Blending:
  - 1. Mix decomposed granite and wax in pug mill with a weigh-belt feeder.
  - 2. Blending operations shall be located within 500 miles of Project.

## 2.2 BASE COURSE MATERIAL

- A. Comply with Greenbook Section 200-2 – “Untreated Base Materials” for [crushed aggregate base or crushed slag base] [crushed miscellaneous base] [processed miscellaneous base] [select subbase].

## 2.3 ACCESSORIES

- A. Water: As required for intended purpose.
- B. [Steel [Edging] [and] [Water Diversion Bars]]:
  - 1. Dimensions: [3/16”] [1/4”] [\_\_\_\_\_] thick by [4-inch] [\_\_\_\_\_] deep, with overlapping joints.
  - 2. Stakes: 3/16” x 16” long x 1-3/4” wide at top tapering to point at bottom; located 36” o.c. maximum.
  - 3. Finish: [Baked-on [green] [brown] [black] paint.] [Hot-dipped galvanized.]
- C. [Redwood [Edging] [and Water Diversion Bars]]:
  - 1. Material: RIS Merchantable Heart Grade [from sustainability managed forests as certified by the Forest Stewardship Council.]
  - 2. Dimensions: Nominal [1 x 4] [\_\_\_\_\_] inches.
  - 3. Stakes: Nominal [2 x 2] [\_\_\_\_\_] inches by 16” long; located 36” o.c. maximum.
- D. [Recycled Plastic Lumber [Edging] [and] [Water Diversion Bars]]:
  - 1. Material: lumber made from recycled polyethylene and UV stabilizers.
  - 2. Dimensions: Nominal [2 x 4] [\_\_\_\_\_] inches.
  - 3. Stakes: Steel, 3/16” x 16” long x 1-3/4” wide at top tapering to point at bottom; located 36” o.c. maximum.
  - 4. Finish: Provide in color to be selected by [Architect] [Engineer] from manufacturer’s standards.
- E. [Geosynthetic Fabric: Comply with Greenbook Section 213-2 – “Geosynthetics”, Type [N90] [\_\_\_\_\_.]
- F. [Soil Sterilant: [\_\_\_\_\_]]

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine grading and subsoil conditions. Do not proceed until conditions are acceptable.

### 3.2 PREPARATION

- A. Excavation: Excavate to depth required so edges of wax-coated decomposed granite surfacing will match adjacent grades and have a maximum cross slope of 1-1/2 percent. [Remove excavated soil from site. [Spread excavated surface as specified in Section [31 10 00] [02310] [\_\_\_\_\_].
- B. Subgrade Preparation: Comply with Greenbook Section 301-1 – “Subgrade Preparation.”
- C. Base Course Installation: Comply with Greenbook Section 301-2 – “Untreated Base.”
- D. [Geosynthetic Fabric: Comply with Greenbook Section [300-10 – “Geotextiles for Separation”] [\_\_\_\_\_]. Do not extend beyond limits of wax-coated decomposed granite surfacing.]
- E. [[Edging,] [Water Diversion Bars,] [and] [Parking Stall Markings]: Install not more than ¼ inch above finished elevation of wax-coated decomposed granite surfacing. Provide sufficient stakes to secure in place.]

### 3.3 INSTALLATION

- A. Immediately prior to installation, presoak surface on which wax-coated decomposed granite surfacing is to be placed.
- B. Place wax-coated decomposed granite using a continuous self-propelled mechanized spreading and finishing machine such as an asphalt paving machine.
- C. Install sufficient wax-coated decomposed granite to provide two-inch minimum compacted thickness, or as specified on plan for final grade.
- D. Grade and smooth to required elevation.
- E. Compact:
  - 1. Equipment: Compact with a minimum 5-ton single-drum roller. In areas that are not accessible to single-drum roller, compact with walk-behind drum roller.
  - 2. Do not use the vibratory mode on the drum roller as this may cause the binder to separate from the aggregate and stick to the drum roller and/or discolor the wax-coated decomposed granite.
  - 3. If wax-coated decomposed granite sticks to the drum roller, lay sheets of minimum 6-millimeter plastic and compact with drum roller.
  - 4. A light misting of water may also aid in the compaction and prevent sticking of the wax-coated decomposed granite to the drum roller.

5. Make at least ten passes over entire surface.
  6. Once compaction of the wax-coated decomposed granite is completed, allow 24-hours for curing. Prevent moisture from coming in contact with the wax-coated decomposed granite for the first 24-hours.
  7. Following the 24-hour curing process, scarify the wax-coated decomposed granite using a Har-Tru® Floating adjustable nail drag or equal over the entire surface to a depth of 1/16 - 1/8 inches.
  8. Inspect the grade and make necessary adjustments to the grade.
  9. Final compact the wax-coated decomposed granite using a light drum roller to achieve the finished surface that resembles a natural decomposed granite surface.
- F. Surface shall follow overall contours of landscape. Flat areas shall be crowned for drainage. [Slope [one] [\_\_\_\_] percent minimum to drain away from structures.]
- G. Completed surface shall be of consistent quality and free of deleterious materials such as organic materials, nails, stones, and loose material. Surface shall not have depressions or humps greater than [½] [\_\_\_\_] inch in ten feet.

### 3.4 PROTECTION AND CLEANING

- A. Protect wax-coated decomposed granite surfacing from damage until Project completion. Repair damaged areas to match specified requirements. If surfacing is damaged or discolored, repair in accordance with manufacturer's instructions by scarifying surface with nail drag.

END OF SECTION

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